

30.09

SELF PROPELLED ROUGH TERRAIN CRANE 4 x 4 x 4 UPPERSTRUCTURE

Boom and telescoping

- 3 section standard boom consisting of a basic boom (9.50 m) and 2 hydraulically powered sections (24.30 m).
- Optional lattice extension (8.50 m) folded along the basic section.
- Optional fold-under fly jib (4.70 m) with two off-set angles (0° and 20°).
- Maximum boom tip height: 26.80 m. - Maximum extension tip height: 35.30 m. - Maximum fly-jib tip height: 40 m.
- Vertical and horizontal support on bearing mounted rollers.
- Single, double acting internally fed ram. Automatic synchronization through a positive mechanical system with single lever control.
- Any rated load can be telescoped.
- Maximum speed: out or in 65 s.

Derricking system

- Single, double acting ram - negative boom angle for easy reeving and servicing of boom head - Boom angles: Max: + 81° - Min: minus 3.5°.
- Speed: 21 s mini from - 3.5° to 81°.

Main winch

- PPM type with high pressure hydraulic motor and single reduction gear.
- Grooved drum and standard cable press device.
- Safe braking system: spring applied, hydraulically released, multi-plate disc type.
 - Maximum line pull (1st layer): 4.6 T.
 - Permissible line pull (4th layer): 3.35 T - (1st layer: 4.2 T).
 - 15 mm dia rope (anti-spin) Max: breaking strength: 20.55 T.
- 2 speed ranges: 0 - 90 m/mn and 0 - 135 m/mn.

Auxiliary winch

- Same as main winch with independent circuit and separate control - 15 mm dia rope (anti-spin).
- Maximum line pull (1st layer): 4.2 T.
- Permissible line pull (4th layer): 3 T - (1st layer: 3.8 T).
- 2 speed ranges: 0 - 90 m/mn and 0 - 135 m/mn.

Slewing

- By hydraulic motor through reduction gear and electro-magnetic brake release - Cross roller slewing ring with external gear teeth mounted and bolted on machined surface.
- Slewing speed: from 0 to 2.1 r.p.m.

Operator's cab

Superstructure mounted: full all round vision type with removable front wind-shield, sliding side windows, electric windscreen wiper and washer, cab interior light, working light, adjustable and hydraulic damped seat, independent cab heater, electric horn.

Cab controls and instrumentation

- Fully instrumented front control panel with warning lights for engine, transmission, brakes - pressure and oil level, road and cab lights.
- Dash mounted controls for stabilizers, transmission, steering, cab heater.
- Crane controls through 4 levers and 2 inter-connected pedals for independent or simultaneous operation of crane functions.

CHASSIS AND TRANSMISSION

Chassis

All welded single unit monocoque construction - Made from high strength steel plates with integral outrigger boxes - Fitted with standard mudguards providing large walking plates around the chassis - Non slip protection - Hook points.

Outriggers

Independent type - Four horizontal beams and four vertical jacks with fixed rods protected by sleeves and fitted with bolt-on lock valves - Two positions non removable pads (400 mm x 400 mm) - Controls operated from the cab or from the chassis - Partial extension facility.

Engine

Diesel DEUTZ engine - Type BF 6L 913 - 160 CV DIN (118 kW at 2500 r.p.m.) - Turbo charged - Air cooled - Fuel tank: 200 l (with level gauge).

Transmission

Direct mounted torque converter - Power shift gear box with 6 (3 x 2) forward and reverse speeds - Four wheel drive selection from the cab. Automatic rear axle disconnect in high range.

Axles

- Double reduction steering drive axles.
- Rear axle fitted with no spin differential.

Suspension

- Front: Axle fixed to the chassis.
- Rear: Coil springs and hydraulic shock-absorbers, lockable in any position from the cab for free-on-wheels duties.

Tyres

- Standard: 4 tyres 20.5 x 25.
- Optional: 4 tyres 23.5 x 24 or 4 tyres 1600 x 24.

Steering

- Front: Hydrostatic with steering wheel.
- Rear: hydro-electric controlled by independent lever located under the steering wheel.

Braking

- Service brakes: Foot operated on all wheels with 2 independent Hydropneumatic systems for front and rear.
- Emergency brakes: On the front wheels.
- Parking brakes: Operating on front axle, automatically engaged with the reverser in neutral position.

CIRCUITS

Electric

24 volt - Separated circuits for turret and chassis with separated fuse boxes. Complete road and working lights.

Pneumatic

Air regulator, anti-freeze device, automatic purifier - Separate air tanks for front and rear brakes.

SAFETY DEVICES

- Safety lock valves bolted to all load bearing cylinders - (derrick, telescope, outriggers).
- Speed limiter on all load lowering motions (hoist, derrick, telescope).
- Pressure limiters on all hydraulic functions.
- Over hoist knock out.

- Indication of over front duties.
- Indication of boom length and boom angle.
- Mechanical locking of the turret for road travel - power operated from cab.
- All functions come automatically to a stop when the control levers are released.
- Double braking circuit.

OPTIONAL

- Safe load indicator with motion cut.
- Extra large pads for outriggers.
- Lower stroke hook limiter.

- Soundproofing.
- Tropical or arctic equipment.
- Special adaptations to customer requirements.

NOTE: P.P.M. reserves the right to modify the above specifications which are given as a guide only.

* SUR STABILISATEURS EN EXTENSION TOTALE – SUR 360°

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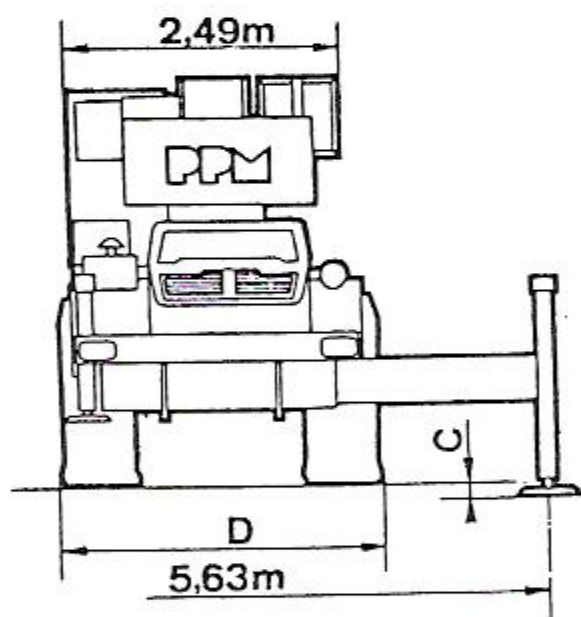
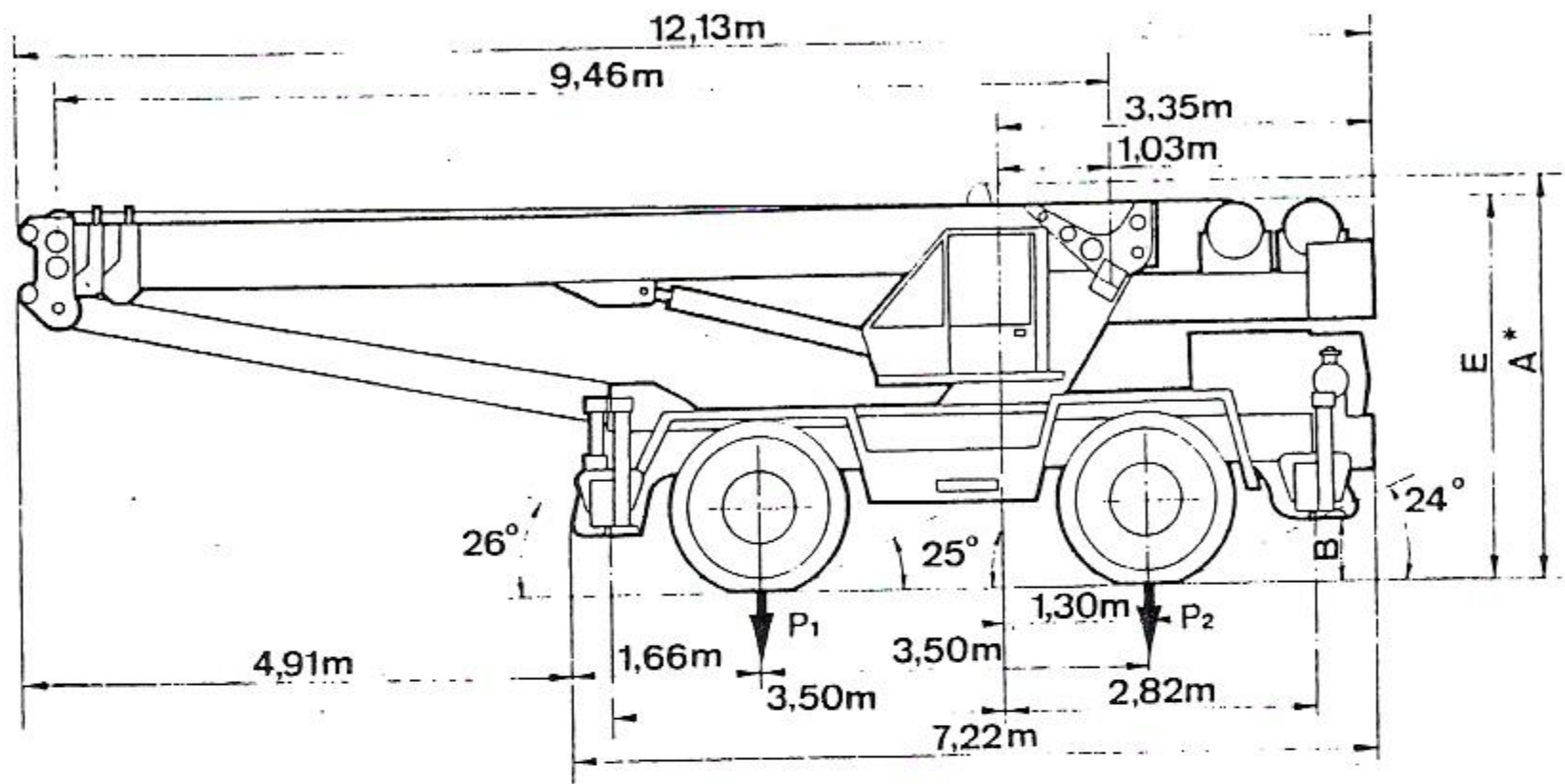
EXTENSION		FLECHE 33 m + FLECHETTE 4,70 m				
NOIR		NOIR		NOIR		
33 m		0°		20°		
 °	75 %	 °	75 %	 °	75 %	
						3
						3,5
						4
						4,5
						5
79,00	4,60					6
77,50	4,35	79,00	2,90			7
76,00	4,10	77,50	2,75	80,50	1,90	8
74,00	3,90	76,00	2,60	78,50	1,85	9
72,50	3,75	74,50	2,50	77,00	1,80	10
70,50	3,60	73,00	2,40	75,50	1,70	11
68,50	3,40	71,50	2,30	74,00	1,65	12
66,50	3,30	70,00	2,20	72,00	1,55	13
65,00	3,15	68,00	2,10	70,00	1,50	14
63,00	3,05	66,50	2,00	68,50	1,45	15
61,00	2,80	65,00	1,90	67,00	1,40	16
58,50	2,45	63,00	1,80	65,00	1,35	17
56,50	2,15	61,50	1,75	63,00	1,30	18
54,00	1,90	59,50	1,65	61,50	1,25	19
52,00	1,70	58,00	1,60	59,50	1,25	20
49,50	1,50	56,50	1,55	57,50	1,20	21
47,50	1,30	54,50	1,40	55,50	1,15	22
45,00	1,15	52,50	1,25	53,50	1,10	23
42,50	1,00	50,50	1,10	51,50	1,10	24
40,00	0,90	48,50	0,95	49,50	1,05	25

* SUR STABILISATEURS EN EXTENSION TOTALE -- SUR L'AVANT $\pm 10^{\circ}$

[illegible]

EXTENSION		FLECHE 33 m + FLECHETTE 4,70 m				
NOIR		NOIR		NOIR		
33 m		0°		20°		
 0°	75 %	 0°	75 %	 0°	75 %	
						4,5
						5
79,00	4,60					6
77,50	4,35	79,00	2,90			7
75,50	4,10	77,50	2,75	80,50	1,90	8
73,50	3,90	76,00	2,60	78,50	1,85	9
72,00	3,75	74,50	2,50	77,00	1,80	10
70,00	3,60	73,00	2,40	75,50	1,70	11
68,00	3,40	71,50	2,30	74,00	1,65	12
66,50	3,30	70,00	2,20	72,00	1,55	13
64,50	3,15	68,00	2,10	70,00	1,50	14
62,50	3,05	66,50	2,00	68,50	1,45	15
60,50	2,90	65,00	1,90	67,00	1,40	16
58,50	2,80	63,00	1,80	65,00	1,35	17
56,50	2,70	61,50	1,75	63,00	1,30	18
54,00	2,60	59,50	1,65	61,50	1,25	19
52,00	2,55	58,00	1,60	59,50	1,25	20
49,50	2,35	56,50	1,55	57,50	1,20	21
47,50	2,15	54,50	1,50	55,50	1,15	22
45,00	1,95	52,50	1,45	53,50	1,10	23
42,50	1,75	50,50	1,40	51,50	1,10	24
40,00	1,60	48,50	1,30	49,50	1,05	25

- * Avec roues décollées du sol sur sol horizontal et dur.
- ** Portées et angles sous charge nominale.



	A	B	C	D	E
1600 × 24	3650	430	160	2490	3450
20,5 × 25	3650	450	150	2500	3450
23,5 × 25	3700	480	90	2700	3500

A* avec extension - with extension - mit verlängerung - con alargadera

Poids / Weight / Gewicht / Peso			
Machine de base Basic machine Maquina de base Grundgerät	25.5 t	Toutes options All options Todas opciones Zusatsausrüstung	1.05 t
P ₁ : 12,225 t	P ₂ : 13,275 t	P ₁ : 13,325 t	P ₂ : 13,225 t

